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CHAPTER 1: INTRODUCTION

1.1 FEATURES

A. Hardware

CPU

- Supports Socket 754.
- Supports AMD Athlon 64 processor up to 3700+.
- Supports AMD Sempron processor.
- Supports 200/400/600/800 clock rates with Double Data Rate style operation for 400/800/1200/1600MT/s in both directions simultaneously for Hyper Transport link.

Chipset

- North Bridge: VIA K8T890.
- South Bridge: VIA VT8237R.

Dimension

- ATX Form Factor: 21.99cm (W) x 29.31cm (L)

Main Memory

- Supports up to 2 DDR devices.
- Supports 266/333/400MHz DDR devices.
- Maximum memory size is up to 2GB. (Following table is only for reference.)

DIMM Socket Location	DDR Module	Total Memory Size
DIMM1	128MB/256MB/512MB/1GB *1	
DIMM2	128MB/256MB/512MB/1GB *1	Max is 2GB.

Slot

- Three PCI bus master slots.
- Two PCI-EX1 slots.
- One PCI-EX16 slot.
- One XGP slot (Xtreme Graphic Port). (See p.10 for detail information)

Onboard IDE

- Two IDE connectors support 4 hard disk drives.
- Supports PIO mode 5, Bus Master, and Ultra DMA 66/100/133 function.

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Super I/O

- Chip: ITE IT8705AF GX.
- Low Pin Count Interface.
- Integrate hardware monitor functions.

Onboard Serial ATA

- Integrated in VT8237R.
- Two serial ATA connectors support 2 SATA devices.
- Supports RAID 0 and RAID 1 functions.
- Supports 2 serial ATA (SATA) ports.
 - Data transfer rates up to 150 MB/s.
 - Compliant with SATA Version 1.0 specification.

10/100 LAN

- Chip: RTL8100C.
- Supports 10/100 Mb/s auto-negotiation operation.
- Half/Full duplex capability.
- Supports ACPI, PCI power management.

Onboard AC'97 Sound Codec

- Chip: ALC655
- Support 6 channels.
- Supports S/PDIF out and S/PDIF-in (optional) function.
- Compliant with AC'97 Version 2.3 specification.

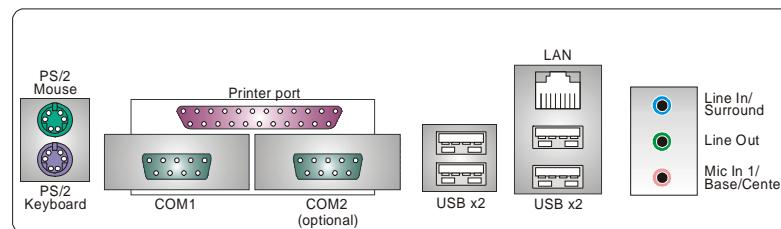
Internal On-board I/O Connectors and Headers

- 1 front panel header supports front panel facilities.
- 1 CD-in connector supports 1 CD-ROM audio-in device.
- 1 front audio header supports front panel audio function.
- 1 S/PDIF-Out connector supports digital audio-out function.
- 1 S/PDIF-In connector supports digital audio-in function (optional).
- 1 chassis open header supports PC case-opened warning function.
- 1 FDD connector supports 2 Floppy drives with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 2 USB headers support 4 USB 2.0 ports at front panel.
- 1 audio-DJ header (optional).
- 1 Wake-up on LAN header (optional).

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Back Panel I/O Connectors

- 4 USB 2.0 ports.
- 1 Serial port (COM2 is optional).
- 1 Parallel port.
- 1 RJ-45 LAN jack.
- 1 PS/2 Mouse & Keyboard port.
- 1 Vertical audio port including 1 line-in connector, 1 Line out connector, and 1 MIC in connector.



B. BIOS & Software

BIOS

- Award legal BIOS.
- Supports APM1.2, ACPI, and USB functions.

Software

- Supports 9th TouchTM, FlasherTM, WinFlasherTM, and WarpspeederTM.
- Offers the highest performance for Windows 98SE, Windows NT, Windows 2000, Windows ME, Windows XP, Linux Fedora, and UNIX series.

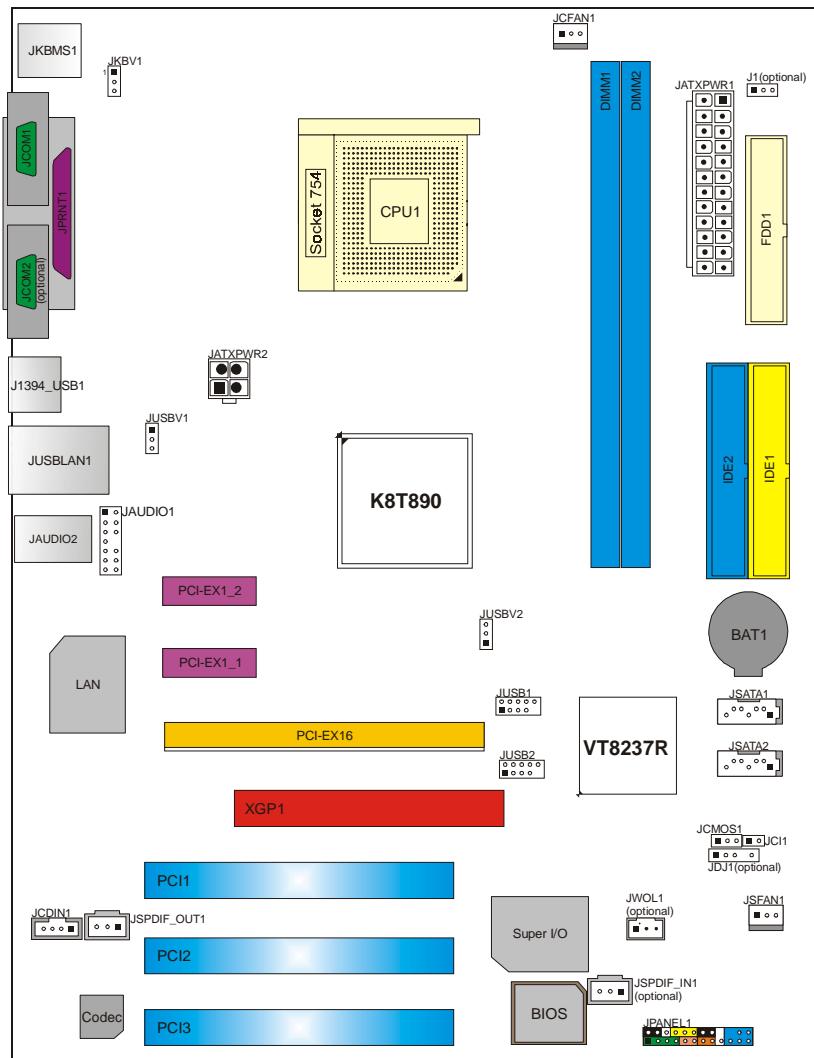
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1.2 PACKAGE LIST

- ❖ FDD cable x1
- ❖ HDD cable x1
- ❖ User's Manual x1
- ❖ Fully Setup Driver CD x1
- ❖ Rear I/O panel for ATX case x1
- ❖ USB 2.0 cable x1 (optional)
- ❖ Serial ATA cable x2 (optional)
- ❖ S/PDIF out cable x1 (optional)

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1.3 LAYOUT

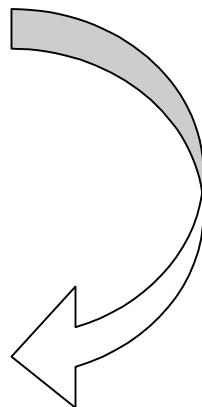
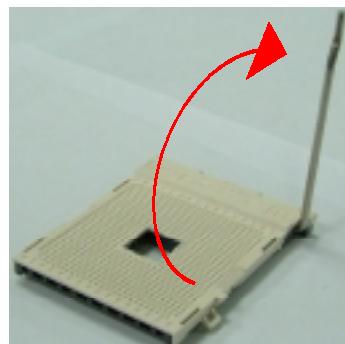
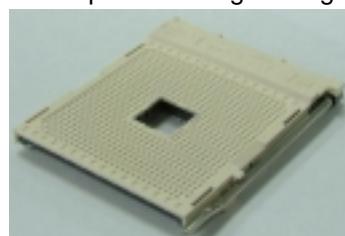


Note: ■ represents the 1st pin.

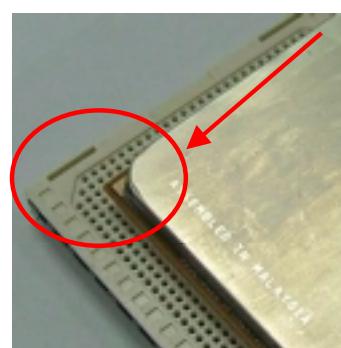
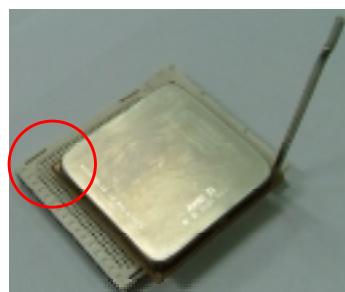
CHAPTER 2: HARDWARE INSTALLATION

2.1 CENTRAL PROCESSING UNIT (CPU)

Step 1: Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.

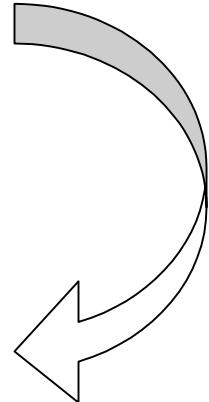
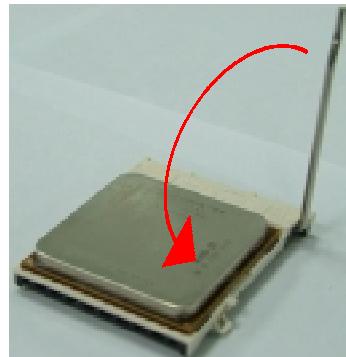


Step 2: Look for the black cut edge on socket, and the white dot on CPU should point forwards this black cut edge. The CPU will fit only in the correct orientation.



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Step 3: Hold the CPU down firmly, and then close the lever to complete the installation.



Step 4: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the JCFAN1. This completes the installation.

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2.2 FAN HEADERS

These fan headers support cooling-fans built in the computer. The fan wiring and plug may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU FAN Header: JCFAN1

1 JCFAN1	Pin	Assignment
	1	Ground
	2	+12V
	3	FAN RPM rate sense

System Fan Header: JSFAN1

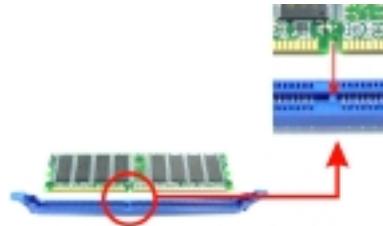
1 JSFAN1	Pin	Assignment
	1	Ground
	2	+12V
	3	FAN RPM rate sense

Note:

The JCFAN1 and JSFAN1 support 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 MEMORY MODULE INSTALLATION

1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



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2.4 CONNECTORS AND SLOTS

FDD1: Floppy Disk Connector

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

IDE1/IDE2: Hard Disk Connectors

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~5, Bus Master, and Ultra DMA 66/ 100/ 133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

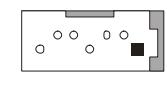
The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

PCI1~PCI3: Peripheral Component Interconnect Slots

This motherboard is equipped with 3 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.

JSATA1/JSATA2: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate of 1.5Gb/s.



	Pin	Assignment	Pin	Assignment
	1	Ground	2	TX+
	3	TX-	4	Ground
	5	RX-	6	RX+
	7	Ground		

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Xtreme Graphics Port Slot: XGP1

This XGP (Extreme Graphics Port) slot is a special design that only supports compatible AGP VGA cards.

To install the system with an add-on AGP VGA card, please make sure to install the driver of add-on AGP VGA card before onboard VGA driver installation. If the onboard VGA driver has already been installed before you install the add-on AGP VGA card, the system will automatically set the onboard VGA as the primary graphics adapter.

For the onboard VGA driver can't be removed completely, and to solve this problem, please follow the steps below,

1. Disable onboard VGA utility under the operating system, and reboot PC. After PC restarts, the system will automatically set the AGP VGA card as the graphics adapter.
2. Or, re-install your operating system to ensure the AGP VGA card function can be used.

Note:

Please go to "<http://www.biostar.com.tw>" for more detailed information about XGP compatible AGP cards.

CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.

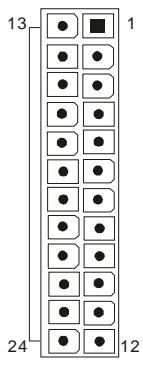


3.2 DETAIL SETTINGS

JATXPWR1/PATXPWR2: ATX Power Source Connectors

JATXPWR1: This connector allows user to connect with 20-pin power connector on the ATX power supply.

JATXPWR2: By connecting this connector, it will provide +12V to CPU power circuit.

 JATXPWR1		Pin	Assignment	Pin	Assignment
		1	+3.3V	13	+3.3V
		2	+3.3V	14	-12V
		3	Ground	15	Ground
		4	+5V	16	PS_ON
		5	Ground	17	Ground
		6	+5V	18	Ground
		7	Ground	19	Ground
		8	PW_ON	20	-5V
		9	Standby Voltage +5V	21	+5V
		10	+12V	22	+5V
		11	+12V	23	+5V
		12	DETECT	24	Ground
 JATXPWR2		Pin	Assignment	Pin	Assignment
		1	+12V	3	Ground
		2	+12V	4	Ground

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JKBV1: Power Source Header for PS/2 Keyboard and Mouse

	Assignment	Description
 Pin 1-2 close	+5V	+5V for PS/2 keyboard and mouse
 Pin 2-3 close	+5V Standby Voltage	PS/2 mouse and keyboard are powered with +5V standby voltage.

Note:

In order to support this function "Power-on system via keyboard and mouse", "JKBV1" jumper cap should be placed on Pin 2-3.

JUSBV1/JUSBV2: Power Source Header for USB Ports

	Assignment	Description
 Pin 1-2 close	+5V	JUSBV1: +5V for J1394_USB1 and JUSBLAN1. JUSBV2: +5V for JUSB1/JUSB2.
 Pin 2-3 close	+5V standby Voltage	JUSBV1: J1394_USB1 and JUSBLAN1 are powered by +5V standby voltage. JUSBV2: JUSB1/JUSB2 are powered by +5V standby voltage.

Note:

In order to support this function "Power-on system via USB device," "JUSBV1/ JUSBV2" jumper cap should be placed on Pin 2-3 individually.

JUSB1/JUSB2: Headers for USB 2.0 Ports at Front Panel

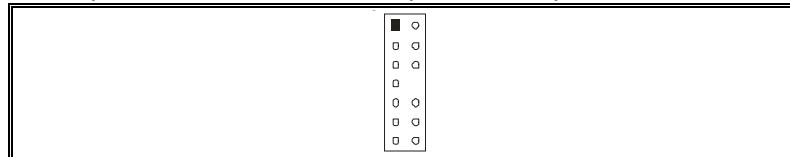
This header allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.

	Pin	Assignment	Pin	Assignment
	1	+5V (fused)	2	+5V (fused)
	3	USB-	4	USB-
	5	USB+	6	USB+
	7	Ground	8	Ground
	9	Key	10	NC

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JAUDIO1: Front Panel Audio Header

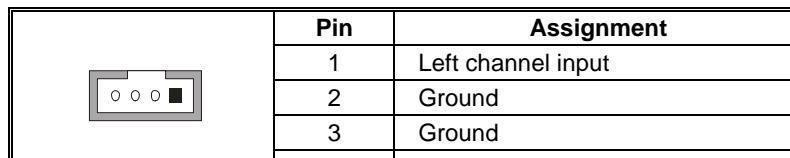
This header allows user to connect the front audio out put cable with the PC front panel. It will disable the output on back panel audio connectors.



Pin	Assignment	Pin	Assignment
1	Mic in/center	2	Ground
3	Mic power/Bass	4	Audio power
5	Right line out/Speaker out Right	6	Right line out/Speaker out Right
7	Reserved	8	Key
9	Left line out/Speaker out Left	10	Left line out/Speaker out Left
11	Right line in/Rear speaker Right	12	Right line in/Rear speaker Right
13	Left line in/Rear speaker Left	14	Left line in/Rear speaker Left

JCDIN1: CD-ROM Audio-in Connector

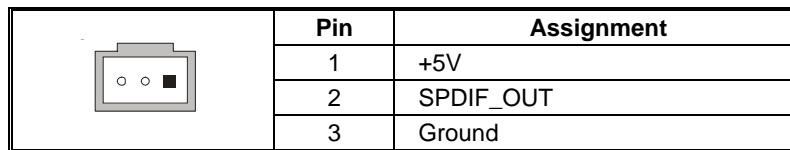
This connector allows user to connect the audio source from the veriaty devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..



Pin	Assignment
1	Left channel input
2	Ground
3	Ground
4	Right channel input

JSPDIF_OUT1: Digital Audio-out Connector

This connector allows user to connect the PCI bracket SPDIF output header.

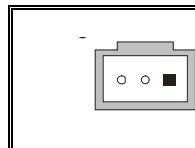


Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

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JSPDIF_IN1: Digital Audio-in Connector (optional)

This connector allows user to connect the PCI bracket SPDIF input header.

	Pin	Assignment
	1	+5V
	2	SPDIF_IN
	3	Ground

JCI1: Chassis Open Header

This connector allows system to monitor PC case open status. If the signal has been triggered, it will record to the CMOS and show the message on next boot-up.

	Pin	Assignment
	1	Case open signal
	2	Ground

JCMOS1: Clear CMOS Header

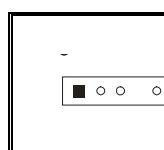
By placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data, please carefully follow the procedures to avoid damaging the motherboard.

	Assignment
	Normal Operation (Default).
	Clear CMOS data.

※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to “Pin 2-3 close”.
3. Wait for five seconds.
4. Set the jumper to “Pin 1-2 close”.
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

JDJ1: AUDIO DJ Connector (optional)

	Pin	Assignment	Pin	Assignment
	1	SMBDATA	2	SMBCLK
	3	INT_B	4	Key
	5	AXT_PWROK		

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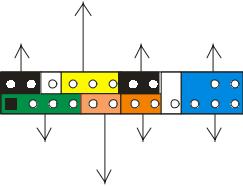
JWOL1: Wake on LAN Header (optional)

The connector powers up the system when a wakeup packet or signal is received from the network. This feature requires the Wake up on LAN function in BIOS is set to Enabled and that your system has an ATX power supply with at least 720mA +5V standby power.

	Pin	Assignment
	1	+5V_SB
	2	Ground
	3	Wake-up signal

JPANEL1: Front Panel Header

This 24-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button, speaker and IrDA Connection. It allows user to connect the PC case's front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep control	Sleep button
3	N/A		4	Ground	
5	N/A		6	N/A	N/A
7	Speaker		8	Power LED (+)	
9	HDD LED (+)	Hard drive LED	10	Power LED (+)	Power LED
11	HDD LED (-)		12	Power LED (-)	
13	Ground	Reset button	14	Power button	Power-on button
15	Reset control		16	Ground	
17	N/A		18	Key	
19	N/A	IrDA Connector	20	Key	
21	+5V		22	Ground	IrDA Connector
23	IRTX		24	IRRX	

CHAPTER 4: USEFUL HELP

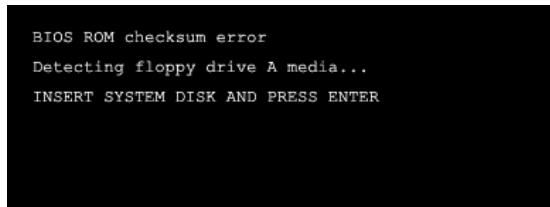
4.1 AWARD BIOS BEEP CODE

Beep Sound	Meaning
One long beep followed by two short beeps	Video card not found or video card memory bad
High-low siren sound	CPU overheated System will shut down automatically
One Short beep when system boot-up	No error found during POST
Long beeps every other second	No DRAM detected or install

4.2 EXTRA INFORMATION

A. BIOS Update

After you fail to update BIOS or BIOS is invaded by virus, the Boot-Block function will help to restore BIOS. If the following message is shown after boot-up the system, it means the BIOS contents are corrupted.



In this Case, please follow the procedure below to restore the BIOS:

1. Make a bootable floppy disk.
2. Download the Flash Utility "AWDFLASH.exe" from the Biostar website: www.biostar.com.tw
3. Confirm motherboard model and download the respectively BIOS from Biostar website.
4. Copy "AWDFLASH.exe" and respectively BIOS into floppy disk.
5. Insert the bootable disk into floppy drive and press Enter.
6. System will boot-up to DOS prompt.
7. Type "Awdflash xxxx.bf/sn/py/r" in DOS prompt.
(xxxx means BIOS name.)
8. System will update BIOS automatically and restart.
9. The BIOS has been recovered and will work properly.

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B. CPU Overheated

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:

1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:

1. Clear the CMOS data.
(See “Close CMOS Header: JCMOS1” section)
2. Wait for seconds.
3. Power on the system again.

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4.3 TROUBLESHOOTING

Probable	Solution
1. No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. 2. Indicator light on keyboard does not turn on.	1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from hard disk drive, can be booted from optical drive.	1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.	1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
Cannot boot system after installing second hard drive.	1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

CHAPTER 5: WARPSPEEDER™



5.1 INTRODUCTION

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

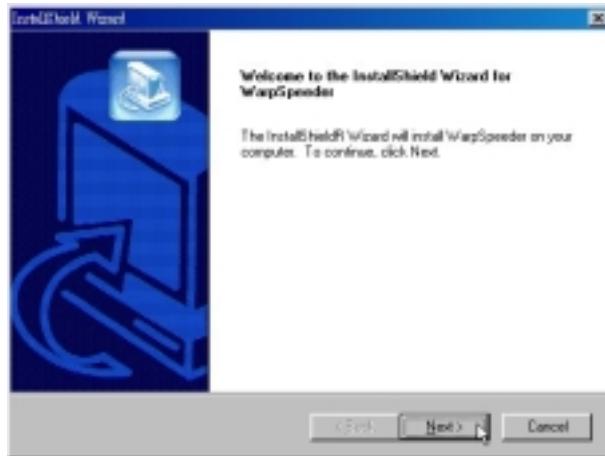
5.2 SYSTEM REQUIREMENT

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

5.3 INSTALLATION

1. Execute the setup execution file, and then the following dialog will pop up. Please click “Next” button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the “Launch the WarpSpeeder Tray Utility” checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click “Finish” button.



Usage:

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

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5.4 [WARP SPEEDER™] INCLUDES 1 TRAY ICON AND 5 PANELS

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.



2. Main Panel

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer to the following figure; the utility's first window you will see is Main Panel.

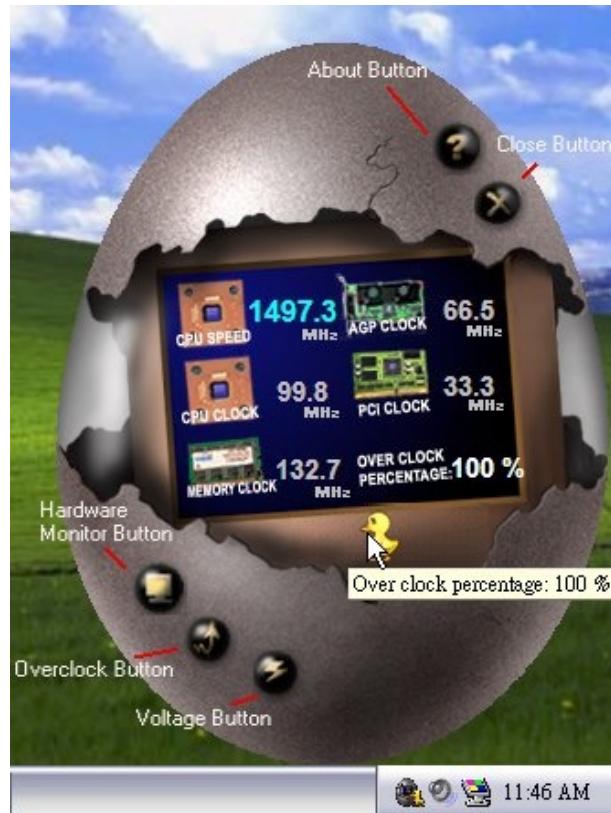
Main Panel contains features as follows:

- a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Man walking→overclock percentage from 100% ~ 110 %

Panther running→overclock percentage from 110% ~ 120%

Car racing→overclock percentage from 120% ~ above



3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is “No”. If you want to get the best performance of overclocking, we recommend you click the option “Yes”.



4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.



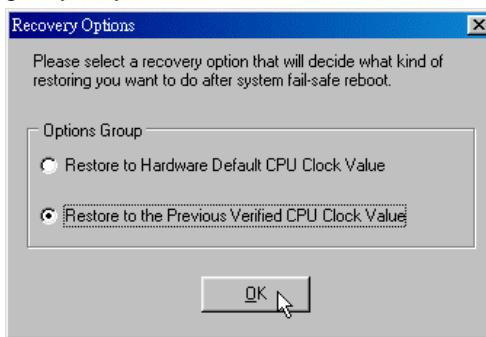
Overclock Panel contains the these features:

- “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

Warning:

Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.

- “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



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- c. “Auto-overclock button”: User can click this button and [WarpSpeeder™] will set the best and stable performance and frequency automatically. [WarpSpeeder™] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog’s setting.
- d. “Verify button”: User can click this button and [WarpSpeeder™] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog’s setting.

Note:

Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card’s color depth is High color (16 bit) or True color(24/32 bit) that is required for Direct3D rendering.

5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

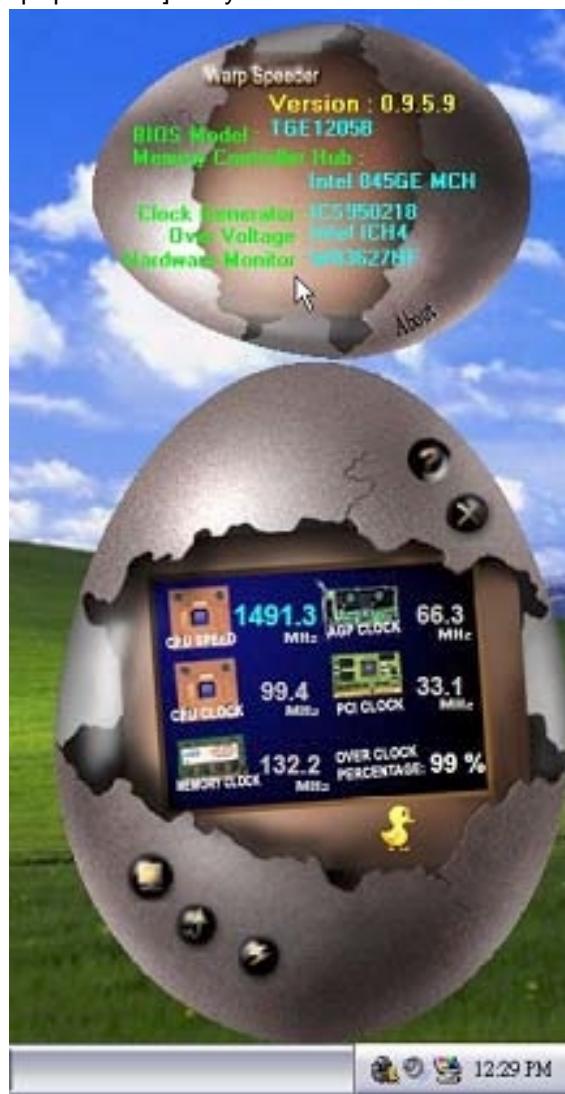
In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



6. About Panel

Click the “about” button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [WarpSpeeder™] utility.



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Note:

Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [WarpSpeeder™] utility more robust.